

The image shows three large, spherical industrial storage tanks in a row, supported by metal legs. They are situated in an industrial facility with various pipes and walkways. The scene is captured at sunset, with a warm, orange glow from the sun positioned behind the middle tank, creating a lens flare effect. The sky is filled with soft, orange and yellow clouds. The overall atmosphere is industrial yet serene.

# THE HEART OF CONTAINED POWER

 **MARCEGAGLIA**  
PLATES

# PVQ STEELS



Marcegaglia Plates PVQ heavy plates are designed to ensure **tightness, strength and stability**, even under high pressure, demanding service temperatures and repeated thermal cycles.

Developed for complex industrial applications, our solutions are suitable for the manufacture of equipment and plants intended for the energy, chemical, plant engineering and oil & gas sectors.

## EN PVQ steels

Steels according to EN 10028-2 are intended for the construction of boilers and pressure vessels for elevated temperature service. P235GH, P265GH, P295GH and P355GH grades, together with 16Mo3 and 13CrMo4-5, make it possible to address applications with different levels of thermal and mechanical stress. Steels according to EN 10028-3, fine-grain steels in the normalized condition, are suitable when the design requires greater reliability and predictable behavior even at low temperatures. P275 and P355 grades in NH, NL1 and NL2 versions ensure toughness and structural uniformity.

## ASTM/ASME steels

For applications in international contexts, the range also includes steels compliant with ASTM / ASME standards, used in the main industrial sectors.

- **ASTM A516 / ASME SA516:** a widely used solution for pressure vessels thanks to its good balance between strength and ductility
- **ASTM A537 / ASME SA537:** heat-treated steel suitable for more severe loading conditions
- **ASTM A285 / ASME SA285, ASTM A299 / ASME SA299, ASTM A515 / ASME SA515 e ASME SA612:** selected grades for specific temperature, strength and service requirements.



## GRADES AND MANUFACTURING STANDARDS

MANUFACTURING STANDARD	PRODUCT DESIGNATION	GRADE
EN 10028-2	Steels for boilers and pressure vessels with high-temperature properties	P235GH, P265GH, P295GH, P355GH, 16Mo3, 13CrMo4-5
EN 10028-3	Fine-grain weldable steels for normalized pressure vessels	P275NH, P275NL1, P275NL2, P355N, P355NH, P355NL1, P355NL2
ASTM A285, ASME SA285	Carbon steels for pressure vessels, low to medium tensile strength	Grade C
ASTM A299, ASME SA299	Carbon-manganese-silicon steels for pressure vessels	Grade A
ASTM A515, ASME SA515	Carbon steels for intermediate and high-temperature service	Grade 60(N), Grade 65(N), Grade 70(N)
ASTM A516, ASME SA516	Carbon steels for moderate and lower-temperature service	Grade 55(N), Grade 60(N), Grade 65(N), Grade 70(N)
ASTM A537, ASME SA537	Heat-treated carbon-manganese-silicon steels for pressure vessels	Class 1
ASME SA612	High-strength carbon steels for pressure vessels at moderate and low temperatures	SA612

(\*) Available with CE marking

## PRODUCTION RANGE

<b>Min. thickness</b>	<b>7*</b>
<b>Max. thickness</b>	<b>250**</b>
<b>Min. width</b>	<b>1,000</b>
<b>Max. width</b>	<b>3,020/3,000***</b>
<b>Min. length</b>	<b>2,000</b>
<b>Max. length</b>	<b>21,000</b>
<b>Max. plate weight</b>	<b>24,000</b>

(\*) Customized sizes feasible and subject to mill approval

(\*\*) CE marking extension up to 200 mm

(\*\*\*) Natural edges / Cut edges

## Applications

- boilers and steam generators
- pressure vessels and tanks
- heat exchangers
- energy, chemical and oil & gas plants

## Features

- resistance to pressure and temperature
- excellent toughness
- good weldability
- reliability under severe conditions

## Standards and range

Our heavy plates are available according to the main international standards:

- EN 10028-2 / -3
- ASTM / ASME A285, A299, A515, A516, A537, SA612

Our solutions ensure **safety, reliability and continuity of performance** in the most critical applications, contributing to the efficient and long-lasting operation of industrial plants.

# **MARCEGAGLIA** **PLATES**

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***CONTACT US TO RECEIVE SUPPORT IN  
SELECTING THE HEAVY PLATES BEST  
SUITED TO YOUR PROJECT.***

